

AIR FILTRATION SYSTEM INCLUDING A HELMET ASSEMBLY

ABSTRACT OF THE DISCLOSURE

An air filtration system and a helmet for use in the air filtration system are
5 disclosed and utilized to filter air between a head and body of a user and an external
environment. The air filtration system and helmet include inner and outer shells that
define an air flow channel for channeling air about the user. A fan module is mounted
between the inner and outer shells and a scroll housing is mounted adjacent the fan
module. The scroll housing includes an air inlet for drawing air into the air filtration
10 system and helmet, and at least one air outlet to distribute air flow to the air flow
channel. The helmet includes air exits at front and rear sections that are in fluid
communication with the air flow channel and the air outlet or outlets. The air filtration
system includes a gown operating as a filter for filtering the air.